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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/846,582	05/01/2001	Edward William Lindblad	50028.01US01	4863
7590 01/05/2005			EXAMINER	
Timothy J. Lorenz			NGUYEN, KIMNHUNG T	
INGRASSIA, FISHER, & LORENZ, P.C. 7150 E. Cambelback Road			ART UNIT	PAPER NUMBER
Scottsdale, AZ 85251			2674	

DATE MAILED: 01/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/846,582	LINDBLAD ET AL.			
Office Action Summary	Examiner	Art Unit			
•	Kimnhung Nguyen	2674			
The MAILING DATE of this communication					
Period for Reply	•••	•			
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearmed patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a re n. a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MON [*] tatute, cause the application to become AB.	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 0	08 September 2004.				
· <u> </u>	This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice und	ler <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-20</u> is/are pending in the applica	tion				
4a) Of the above claim(s) is/are with					
5)⊠ Claim(s) <u>1-10</u> is/are allowed.	didwii iioiii oorisiderdiiori.				
6)⊠ Claim(s) <u>13-18</u> is/are rejected.					
7)⊠ Claim(s) <u>19 and 20</u> is/are objected to.					
8) Claim(s) are subject to restriction ar	nd/or election requirement.				
Application Papers					
Application Papers					
9) The specification is objected to by the Exar					
10) The drawing(s) filed on is/are: a)					
Applicant may not request that any objection to					
Replacement drawing sheet(s) including the co	•				
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form P1O-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).			
1. Certified copies of the priority docum					
2. Certified copies of the priority docum	,	· ——			
3. Copies of the certified copies of the	•	received in this National Stage			
application from the International Bu	, , , , , , , , , , , , , , , , , , , ,				
* See the attached detailed Office action for a	list of the certified copies not r	received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)		ummary (PTO-413)			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE)/Mail Date formal Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 8/7/01 and 10/3/02.

6) Other:

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DETAILED ACTION

This Application has been examined. The claims 1-20 are pending. The examination results are as following.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 11-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ito (US 5,745,092) in view of Raymond Becky (US 4,462,069).

Regarding claim 11, Ito discloses in figure 2, a liquid crystal display (LCD) device comprising a contrast-setting circuit for setting a contrast of an LCD panel, the contrast setting circuit including a voltage divider circuit (90) having an output (V10) determined the ratio of the resistors (72-75), and a variable resistive (70). However, Ito does not disclose a ratio of a first resistive subcircuit to a second resistive subcircuit, the second resistive subcircuit including at least two resistive components, at least one of the resistive components having an initially shorted state such that the at least one resistive component initially provides an insignificant amount of influence on the voltage divider circuit, and at least one resistive component being configured to influence the voltage divider circuit when a shunt associated with the at least one resistive component is severed. Raymond Becky discloses in figure 1B, a regulating circuit comprising output voltage dividing network having a first restive (R13) subcircuit to a second resistive

subcircuit (R14) the second resistive subcircuit including at least two resistive components, at least one of the restive components (R14, R15) having an initially shorted state such that the at least one of the resistive component initially provides an insignificant amount of influence on the voltage divider circuit when a shunt associated with the at least one resistive component is severed (see jumpers circuit J, see column 3, lines 23-25). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a resistive network taught by Raymond Becky in lieu of variable resistor in the voltage divider of Ito because it would simply constitute an alternative choice of components performing the same function without bringing any unexpected result.

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Regarding claim 12, Raymond Becky discloses in figure 1B, that the LCD device, wherein the shunt (see jumper J) associated with the at least one resistive component has been severed, thereby adding the influence of the at least one resistive component to the voltage divider circuit as discussed above.

Regarding claim 13, Raymond Becky discloses in figure 1B, that wherein the second resistive subcircuit further comprising at least four resistive components (R11-R15). Regarding claims 14-16, Raymomd Becky discloses that wherein the at least three resistive components each comprise a different resistive value, and therefore, it obvious wherein a first of the different resistive values is an even multiple of another of the different resistive values and increase in multiples of each lesser resistive value. Regarding claims 17-18, Ito discloses the LCD device, further a substrate on which resides the contrast-setting circuit. Raymond Becky discloses an inherent a stub on which Application/Control Number: 09/846,582

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extends the shunt (see Jumper J) associated with at least one resistive component, wherein severing the stub results in the shunt being severed, and also includes another separate stub for each of the at least one resistive components.

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Allowable Subject Matter

- 3. Claims 1-10 are allowed.
- 4. Claims 19-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter:

 None of the cited art teaches or suggests that a method for manufacturing a LCD device or a

 liquid crystal display device having a contrast-setting circuit and a printed circuit flex comprising
 the a current contrast of the LCD device to determine an amount of deviation of the current
 contrast from an intended contrast, and if the current contrast of the liquid crystal display device
 deviates from the intended contrast, modifying the portion of the printed circuit flex such that the
 portion of the contrast-setting circuit changes from the first state to the second state as claim 1,
 or wherein the contrast-setting circuit resides in a printed circuit flex including a portion that is
 severable from the remainder of the printed circuit flex, the shunt extending onto the severable
 portion as claim 19.

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Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD A HJERPE can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only).

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen December 30, 2004

ALEXANDER EISEN
PRIMARY EXAMINER
TECHNOLOGY CENTER 2600

Zona

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